

Recombinant Anti-IMPDH2 Rabbit mAb

Catalog # AP95296

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	P12268
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	55805

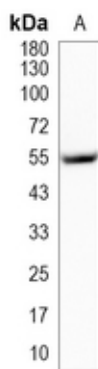
Additional Information

Gene ID	3615
Other Names	IMPD2; Inosine-5'-monophosphate dehydrogenase 2; IMP dehydrogenase 2; IMPD 2; IMPDH 2; IMPDH-II
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human IMPDH2 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

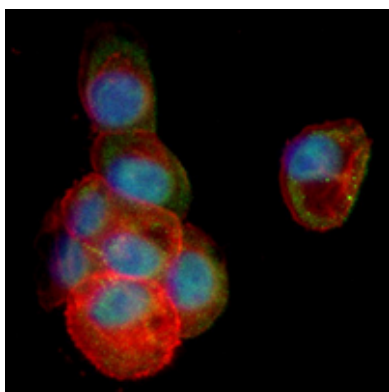
Protein Information

Name	IMPDH2 (HGNC:6053)
Synonyms	IMPD2
Function	Catalyzes the conversion of inosine 5'-phosphate (IMP) to xanthosine 5'-phosphate (XMP), the first committed and rate-limiting step in the de novo synthesis of guanine nucleotides, and therefore plays an important role in the regulation of cell growth (PubMed: 7763314 , PubMed: 7903306). Could also have a single-stranded nucleic acid-binding activity and could play a role in RNA and/or DNA metabolism (PubMed: 14766016). It may also have a role in the development of malignancy and the growth progression of some tumors.
Cellular Location	Cytoplasm. Nucleus. Cytoplasm, cytosol. Note=Can form fiber-like subcellular structures termed 'cytoophidia' in response to intracellular guanine-nucleotide depletion.
Tissue Location	IMPDH1 is the main species in normal leukocytes and IMPDH2 predominates over IMPDH1 in the tumor

Images



Western blot analysis of IMPDH2 expression in HeLa (A) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 56 kD)



Immunofluorescent analysis of IMPDH2 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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